IN THE CLAIMS:

Cancel claims 8, 12, 33, and 37.

Please amend the claims as follows:

- 1. (Currently Amended) A method of <u>forming a wire bond style/flip chip attach</u> <u>assembly</u> electrically connecting a semiconductor die <u>having a bond pad pattern</u> to a first substrate <u>having a connector pattern arrangement</u> when said semiconductor die is attached to second <u>adapter</u> substrate having an upper surface <u>and having a second surface having a connector pattern thereon</u> [without recesses therein], comprising:
- providing [one of a] an inverted bare semiconductor die having a surface having a plurality of bond pads extending along a longitudinal axis of said semiconductor die on said surface in a first bond pad pattern different than the connector pattern arrangement of the first substrate [and a semiconductor die having a surface having a plurality of bond pads extending in a leads-over-chip configuration on said surface];
- providing a second <u>adapter</u> substrate having a die side surface, a second attachment surface, at least one via extending through the substrate from the die side surface to the second attachment surface, a plurality of circuits, and a plurality of bond pads located on the second attachment surface <u>having a connector pattern connected to the plurality of circuits matching the connector pattern arrangement of the first substrate and a plurality of bond pads located in a first bond pad pattern connected to the plurality of circuits matching the first bond pad pattern of the bare semiconductor die [and on the die side of the second substrate];</u>
- applying an adhesive to a portion of the die side of the first substrate to attach the <u>inverted bare</u> semiconductor die thereto;
- attaching a portion of the surface having a plurality of bond pads thereon of the <u>inverted bare</u>
 semiconductor die to <u>a portion of</u> the die side surface of said second substrate <u>locating</u> [so
 that] the <u>bare</u> semiconductor die [is located] above the second <u>adapter</u> substrate <u>having</u>

the bond pads of the semiconductor die located over the via in the second adapter substrate;

connecting said plurality of bond pads of the <u>inverted bare</u> semiconductor die to said plurality of bond pads on the second attachment surface of said second <u>adapter</u> substrate using a plurality of wire bonds, said plurality of wire bonds extending through said at least one via extending <u>from bond pads of the semiconductor die located on the die side surface of the second adapter substrate</u> through said second <u>adapter substrate to the second attachment surface of the second adapter substrate</u>, the <u>plurality of wire bonds connected to the first bond pad pattern of the inverted semiconductor die and to the matching first bond pad pattern on the second attachment surface of the second adapter substrate;</u>

filling at least a portion of the via in the substrate with a sealant; and

connecting said second <u>adapter</u> substrate to said first substrate having said second <u>substrate</u>

located solely on one side of said first substrate [without any portion of said first substrate being located below said upper surface of said second substrate and portions of said plurality of bond wires extending between the die side surface of said second substrate and a die side surface of said first substrate], the connections between said first substrate and said <u>adapter</u> second substrate formed by <u>a plurality of adapter board connectors</u>

<u>extending between the matching connector pattern on the second attachment surface of the second adapter substrate to the connector arrangement of the first substrate [one of a plurality of solder balls and a plurality of pins].</u>

2-4. (Canceled)

5. (Currently Amended) A method of <u>forming a wire bond style/flip chip attach</u>
<u>assembly</u> electrically connecting a semiconductor die <u>having a first bond pad pattern</u> to a master
board <u>having a connector pattern arrangement</u>, comprising:

providing [a] <u>an inverted bare</u> semiconductor die having a plurality of bond pads <u>located in at</u>
<u>least two rows extending down the longitudinal axis of inverted the bare semiconductor</u>
die thereon, the at least two rows of bond pads having a first bond pad <u>pattern</u>;

- providing a master board having a plurality of circuit traces on an upper surface thereof

 connected to a plurality of connectors in a second connector pattern arrangement located

 thereon different than the first bond pad pattern of the plurality of bond pads of the

 inverted bare semiconductor die[, said upper surface having no recesses therein];
- providing an adapter [a] board having a die side surface, a second attachment surface, a via

 [plurality of vias] extending through the board from the die side surface to the second
 attachment surface, a plurality of circuits, [and] a plurality of bond pads located on the
 second attachment surface of the board having a plurality of bond pads connected to the
 plurality of circuits matching the first bond pad pattern of the plurality of bond pads of the
 inverted bare semiconductor die, and having a connector pattern connected to the
 plurality of circuits matching the connector pattern arrangement of the plurality of
 connectors of the master board;
- providing a plurality of electrical connectors for connecting the [plurality of bond pads]

 connector pattern connected to the plurality of circuits matching the connector pattern

 arrangement of the plurality of connectors of the master board located on the second

 attachment surface of the board to the plurality of connectors in a second connector

 pattern arrangement of the circuit traces of the master board;
- attaching <u>a portion of said inverted bare</u> semiconductor die to a portion of the die side surface of the <u>adapter</u> board;
- connecting said plurality of bond pads of said <u>inverted bare</u> semiconductor die to said plurality of bond pads of said board using a plurality of wire bonds, said plurality of wire bonds extending through the <u>via</u> [plurality of vias] extending through the <u>adapter</u> [then] board <u>having a portion thereof attached to the plurality of bond pads on the second attachment surface of the adapter board and having a portion thereof attached to the plurality of bond pads on the bare semiconductor die; and</u>
- connecting said <u>adapter</u> board and master board using said plurality of electrical connectors on said <u>adapter</u> board to said plurality of circuit traces on said master board using <u>the</u>

 <u>plurality of electrical connectors</u> [one of a plurality of solder balls and a plurality of pins, said board being located above the upper surface of said master board].

- 6-7. (Canceled)
- 8. (Canceled
- 9-11. (Canceled)
- 12. (Canceled
- 13-25. (Canceled)
- 26. (Currently Amended) A method of <u>forming a wire bond style/flip chip attach</u>
 <u>assembly</u> attaching a semiconductor die <u>having a first bond pad pattern</u> to a first substrate <u>having</u>
 <u>a connector pattern arrangement</u> for attaching said first substrate to a second <u>adapter</u> substrate
 having an upper surface <u>and having a second surface having a connector pattern thereon</u> [free of
 recesses for semiconductor die] and having a plurality of circuit traces thereon, comprising:
 providing [one of a] <u>an inverted bare</u> semiconductor die having a surface having <u>a plurality of</u>

 <u>bond pads</u> [at least one bond pad] located along a longitudinal axis of said die on said
 surface [and a semiconductor die having a surface having at least one bond pad]
 extending in a leads-over configuration on said surface, the <u>plurality of bond pads having</u>
 a first bond pad pattern different than the connector pattern arrangement of the first
 substrate;
- providing a <u>second adapter</u> [first] substrate having a die side surface, a second attachment surface, at least one via extending through the board from the die side surface to the second attachment surface, a plurality of circuits, and <u>a plurality of bond pads</u> [at least one bond pad] located on the second attachment surface of the <u>second adapter</u> [first] substrate [surface] <u>having a connector pattern thereon connected to the plurality of</u> circuits matching the connector pattern arrangement of the first substrate and a plurality

of bond pads connected to the plurality of circuits in a bond pad pattern matching the first bond pad pattern of the inverted bare semiconductor die;

[filling a potion of the via in the substrate with a sealant]

- applying an adhesive to a portion of the die side of the substrate to attach the <u>inverted bare</u> semiconductor die thereto;
- attaching a portion of the surface having a plurality of bond pads [at least one bond pad] thereon of the <u>bare</u> semiconductor die to <u>a portion of</u> the die side surface of said <u>second</u> [first] substrate;
- connecting said <u>plurality of bond pads</u> [at least one bond pad] of the <u>inverted bare</u> semiconductor die to said <u>plurality of bond pads</u> [at least one bond pad] of said <u>second adapter</u> [first] substrate using <u>a plurality of bond wires</u> [at least one wire bond], said <u>plurality of bond wires</u> [at least one wire bond] extending through said at least one via extending through said <u>second adapter</u> substrate, the <u>plurality of bond wires connected to the first bond pad pattern of the plurality of bond pads of the inverted semiconductor die and to the matching first bond pad pattern of the <u>plurality of bond pads on the second attachment surface of the second adapter substrate</u>; and</u>
- attaching said first substrate to said second attachment [upper] surface of said second adapter substrate using a plurality of adapter board connectors extending from the second attachment surface of the second adapter substrate [using one of a plurality of solder balls and a plurality of pins].

27-29. (Canceled)

30. (Currently Amended) A method of <u>forming a wire bond style/flip chip attach</u> <u>assembly</u> attaching a semiconductor die to a master board, comprising:

providing [a] an inverted bare semiconductor die having a plurality of bond pads in at least two
rows having a first bond pad arrangement [at least one bond pad] located down the
longitudinal axis of a surface of the inverted bare semiconductor die in a leads over chip
configuration [thereon];

- providing a master board having a plurality of circuit traces on an upper surface thereof

 connected to a plurality of connectors in a connector pattern arrangement located thereon

 [at least one circuit trace on an upper surface thereof], said upper surface [free of any
 recess] for the receipt of [a] an inverted bare semiconductor die therein;
- providing [a] an adapter board having a die side surface, a second attachment surface, at least one via [a plurality of vias] extending through the board from the die side surface to the second attachment surface, a plurality of circuits [at least one circuit], a plurality of bond pads [at least one bond pad] located on the second attachment surface of the adapter board having a plurality of bond pads connected to the plurality of circuits in a first bond pad pattern matching the first bond pad pattern of the inverted bare semiconductor die, and having a connector pattern thereon connected to the plurality of circuits matching the connector pattern arrangement of the master board;
- providing a plurality of electrical connectors [at least one electrical connector] for connecting the connector pattern of the plurality of circuits [at least one bond pad] located on the second attachment surface of the adapter board to the plurality of circuits [at least one circuit trace] of the master board;
- attaching a portion of said inverted bare semiconductor die to a portion of the die side surface of the board;
- connecting said <u>plurality of bond pads in a first bond pad arrangement</u> [at least one bond pad] of said <u>bare</u> semiconductor die to said <u>plurality of bond pads in a matching first bond pad pattern</u> [at least one bond pad] of said <u>adapter</u> board using <u>a plurality of bond wires</u> [at least one wire bond, said at least one wire bond] extending through <u>the via</u> [the plurality of vias] extending through the board <u>from the die side surface to the second attachment surface</u>; and
- connecting said <u>adapter</u> board and master board using said <u>plurality of electrical connectors</u> [at least one electrical connector] on said board to said at least one circuit trace on said master board using <u>adapter board</u> [at least one of at least one solder ball and at least one pin as a connector].

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- 31-32. (Canceled)
- 33. (Canceled)
- 34-36. (Canceled)
- 37. (Canceled)
- 38-50. (Canceled)